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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,896	01/11/2005	Yoshitaka Shobara	AIA-0162	4943
23353	7590	09/02/2005	EXAMINER	
RADER FISHMAN & GRAUER PLLC LION BUILDING 1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036			IMAS, VLADIMIR	
			ART UNIT	PAPER NUMBER
			2839	

DATE MAILED: 09/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/520,896	SHOBARA ET AL.
	Examiner Vladimir Imas	Art Unit 2839

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-10 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-10 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

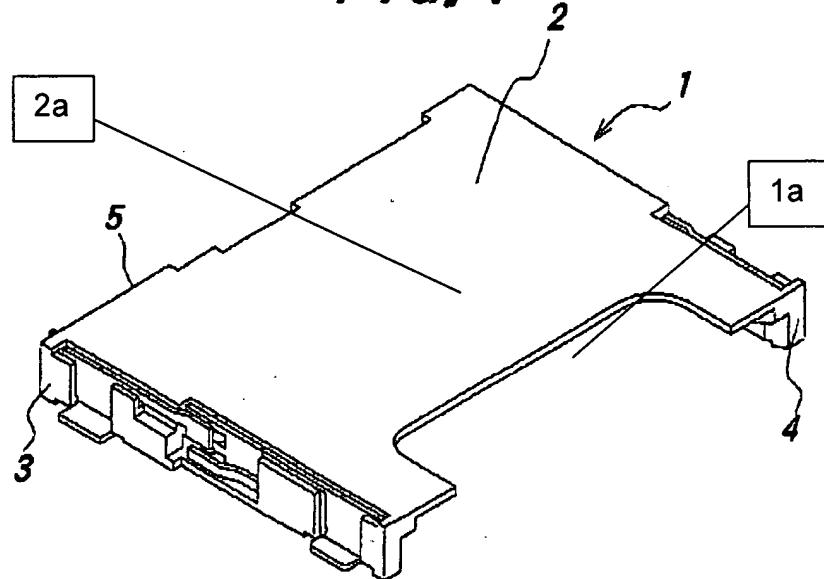
2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Takei et al. (US 2001/0049232).

Regarding claim 1, Takei et al. discloses a card connector Fig. 1-12 comprising: an insertion cavity 1a for receiving a card (not shown) inserted therein in a card inserting direction, a first insulative frame 5 fixed to a mounting surface and defining a rear side of the insertion cavity, a plurality of contacts 8 held by the first frame as facing toward the insertion cavity; a second metal frame 2 of a channel shape fixed to the mounting surface and having a top plate 2a parallel to the mounting surface and first 3 and second 4 side walls to define the insertion cavity between the mounting surface and the second frame; and an inverted card insertion preventing projection 5b provided on one of the first and second side walls of the second frame for preventing the card from being inserted upside down into the insertion cavity; the inverted card insertion preventing projection projecting in an area of the insertion cavity associated with a first half of a card inserting stroke.

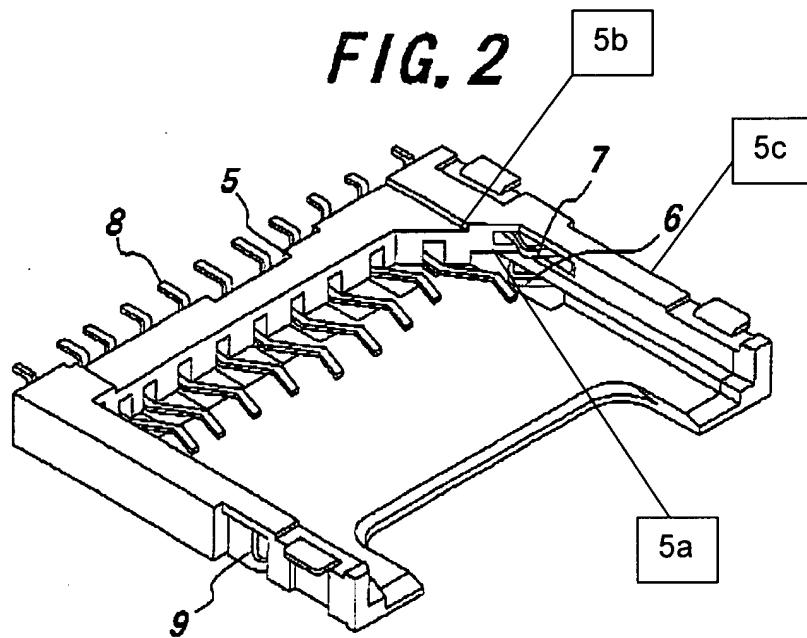
Regarding claim 2, Takei et al. discloses a card connector as set forth in claim 1, whefein the inverted card insertion preventing projection 5b abuts against an insertion

side end face of the card to prevent the insertion of the card when the card is inserted

**FIG. 1**



**FIG. 2**



upside down into the insertion cavity 1a, and wherein the inverted card insertion

preventing projection is fitted in a groove 5a formed in a corresponding lateral side face of the card as extending in the card inserting direction to permit the insertion of the card when the card is inserted in a non-inverted normal state into the insertion cavity.

Regarding claim 3, Takei et al. discloses a card connector as set forth in claim 1 wherein the inverted card insertion preventing projection 5b includes a projection cut and raised from one of the first and second side walls of the second frame.

Regarding claim 4, Takei et al. discloses a card connector as set forth in claim 3, wherein the inverted card insertion preventing projection 5b includes a projection supported at one end thereof.

Regarding claim 5, Takei et al. discloses a card connector as set forth in claim 3, wherein the inverted card insertion preventing projection 5b has a mountain shape as projecting in the insertion cavity 1a and is supported at opposite ends thereof.

Regarding claim 6, Takei et al. discloses a connector as set forth in claim 1, wherein the inverted card insertion preventing projection 5b includes a projection bulged from one of the first and second sidewalls of the second frame.

Regarding claim 7, Takei et al. discloses a card connector as set forth in claim 1, wherein the inverted card insertion preventing projection 5b functions as a card grounding projection.

Regarding claim 8, Takei et al. discloses a card connector as set forth in claim 1, wherein the inverted card insertion preventing projection 5b functions as a card guiding projection for guiding the card into the insertion cavity 1a when the card is inserted in the non-inverted normal state into the insertion cavity.

Regarding claim 9, Takei et al. discloses a card connector as set forth in claim 1, wherein an upper side of the insertion cavity 1a is defined by the top plate 2a of the second frame 2, and lateral sides of the insertion cavity are respectively defined by the first 3 and second 4 side walls of the second frame.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takei et al. in view of Hara et al. (US 6,162,075).

Regarding claim 10, Takei et al. discloses all limitations except an eject mechanism 12 for ejecting the inserted card 2 from the insertion cavity 10, wherein the eject mechanism comprises an eject arm 11 for pressing the insertion side end face of the card inserted in the insertion cavity in a card ejecting direction, and an operation arm 14 linked to the eject arm via a link arm 13, wherein the operation arm is supported slidably along an outer surface of the side wall 5c of the second frame provided with the inverted card insertion preventing projection. Hara et al. discloses an eject mechanism 5 Fig. 2, 3A, 3B, 4A, 4B, 5A, 5B for ejecting the inserted card from the insertion cavity 23, wherein the eject mechanism comprises an eject arm 36 for pressing the insertion side end face of the card inserted in the insertion cavity in a card ejecting direction, and an operation arm 34 linked to the eject arm via a link arm 35, wherein the operation arm is

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supported slidably along an outer surface of the side wall (not labeled) of the second frame 2. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate Hara's et al. ejecting mechanism having Takei's et al. inverted card insertion preventing projection with Takei's et al. conductor to provide the conductor proper ejecting functionality.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vladimir Imas whose telephone number is 571-272-8288. The examiner can normally be reached on 8:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T. Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

V I  
Examiner  
Vladimir Imas  
08/30/2005

T C Patel  
TULSIDAS C. PATEL  
SUPERVISORY PATENT EXAMINER